

## Amendments of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims

1-17. (Canceled)

18. (Currently Amended) ~~The method as in claim 15~~ A method for routing content through a network based on semantics of the content being routed comprising the steps of:

receiving a semantic profile including information that identifies a user's interest in receiving content;

operating on the semantic profile to identify areas of overlapping interests in receiving content between the semantic profile and other semantic profiles, wherein the other semantic profiles include information that identifies other users' interest in receiving content;

aggregating the semantic profiles using the identified areas of overlapping interests;

receiving a semantic packet wherein the semantic packet includes a header and wherein the header of the semantic packet comprises a preamble, at least one semantic signature, and at least one semantic descriptor; and

routing the semantic packet to a destination based at least on a comparison between the semantic content included in the semantic packet and the aggregated semantic profiles.

19. (Original) The method as in claim 18 wherein the semantic descriptors of the semantic packet further comprises environment specific information.

20. (Original) The method as in claim 18 wherein the semantic descriptors of the semantic packet further comprises customized information.

21. (Original) The method as in claim 18 further comprising a forwarding agent which routes the semantic packet through the network using the semantic signature.

22-26. (Canceled)

27. (Currently Amended) ~~The method as in claim 12~~ A method for routing content through a network based on semantics of the content being routed comprising the steps of:

receiving a semantic profile including information that identifies a user's interest in receiving content, wherein the semantic profile comprises:

a preamble;

at least one profile signature;

at least one profile descriptor;

information about a lifetime of the semantic profile;

authentication data; and

a command field that instructs a semantic router;

operating on the semantic profile to identify areas of overlapping interests in receiving content between the semantic profile and other semantic profiles, wherein the other semantic profiles include information that identifies other users' interest in receiving content;

aggregating the semantic profiles using the identified areas of overlapping interests;

receiving a semantic packet; and

routing the semantic packet to a destination based at least on a comparison between the semantic content included in the semantic packet and the aggregated semantic profiles.

28. (Original) The method as in claim 27 wherein the preamble of the semantic profile includes at least one semantic descriptor.

29. (Original) The method as in claim 27 wherein the profile descriptor is in a networking community programming language.

30. (Original) The method as in claim 27 wherein the profile descriptor is in XML markup language.

31. (Original) The method as in claim 27 wherein the authentication data is used to verify a user.

32. (Original) The method as in claim 27 wherein the semantic profile further comprises information that allows the semantic network to act as a firewall by controlling who has access to content.

33. (Original) The method as in claim 27 further comprising a policy profile that allows the network to determine content received by a content consumer.

34. (Currently Amended) ~~The method as in claim 12~~ A method for routing content through a network based on semantics of the content being routed comprising the steps of:

receiving a semantic profile including information that identifies a user's interest in receiving content;

operating on the semantic profile to identify areas of overlapping interests in receiving content between the semantic profile and other semantic profiles, wherein the other semantic profiles include information that identifies other users' interest in receiving content;

aggregating the semantic profiles using the identified areas of overlapping interests;

receiving a semantic packet; and

routing the semantic packet to a destination based at least on a comparison between the semantic content included in the semantic packet and the aggregated semantic profiles;-

wherein the step of aggregating the semantic profile comprises the steps of

parsing a profile file;

creating and populating a node for a profile tree on every information element in the profile file;

creating a fact associated with the node;

reading in a rule file, wherein rules are written to compare name, value, parent, label and children of the node;

running a rule engine which will fire the rules based on the facts;

calling a corresponding method that transforms at least one node in the profile tree when the fact fires and attaching methods on subtrees for transformations.

35. (Original) The method of claim 34 where the facts and rules are represented in Jess system and the methods are represented in Java programming language.

36-54. (Canceled)

55. (Previously Presented) A method for announcing and retrieving content comprising the steps of:

receiving a content profile wherein the content profile includes information identifying content available from a content provider;

operating on the content profile to identify areas of overlapping content between the content profile and other content profiles, wherein the other content profiles include information that identifies content available from other content providers;

aggregating the content profile with the other content profiles using the identified areas of overlapping content;

distributing the aggregated content profiles into a semantic network;

storing the aggregated content profiles at semantic routers within the semantic network;

receiving seek packets wherein the seek packets include at least one request for content;

creating a semantic profile comprising an interest in specified content;

propagating the semantic profile to at least one of the semantic routers;

operating on the semantic profile to identify areas of overlapping interests in receiving the specified content between the semantic profile and other semantic profiles, wherein the other semantic profiles include information that identifies other users' interest in receiving the specified content;

aggregating the semantic profile with the other semantic profiles on the at least one of the semantic routers using the identified areas of overlapping interests;

propagating the aggregated semantic profiles through the semantic network;

routing the seek packets to content providers based at least on the aggregated content profiles stored at semantic routers and the requested content included in the seek packet;

receiving a semantic packet wherein the semantic packet includes content in response to the seek packet; and

routing the semantic packet to a destination based at least on a comparison between the semantic content included in the semantic packet and the aggregated semantic profiles.